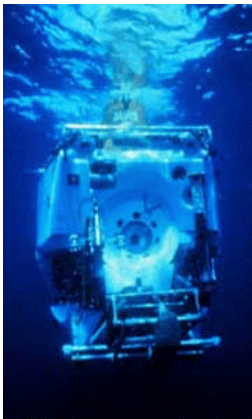
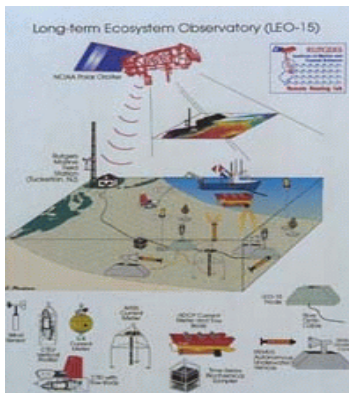




Kraken II Remote Operating Vehicle (ROV)



Alvin deep-diving manned submersible



Long Term Ecological Observatory



Aquarius, the world's only underwater laboratory

1315 East West Hwy
Silver Spring, MD 20910
301-713-1671
www.oar.noaa.gov

National Undersea Research Program

Leader in underwater science and exploration

What does the National Undersea Research Program do?

The National Undersea Research Program (NURP) provides undersea scientists with the tools and resources to study the underwater environment. NURP works with scientists to use submersibles, remotely operated or autonomous vehicles, underwater laboratories and observatories, and other cutting-edge technology. NURP's research programs cover a range of underwater environments from the shoreline to the deep sea and include nearly all the scientific disciplines.

NURP is headquartered in NOAA's Office of Oceanic and Atmospheric Administration (OAR) in Silver Spring, MD, with regional offices in other parts of the country. NURP provides grants through its regional offices to support research in coastal, lakes, territorial seas, and adjacent waters. The regional centers have two hundred or more underwater research programs. NURP is a steward of oceanic resources and environments. Regional centers include:

- " North Atlantic and Great Lakes: University of Connecticut-Avery Point
- " Mid-Atlantic Bight: Rutgers University
- " Southeast and Gulf of Mexico: University of North Carolina at Wilmington
- " Caribbean: Caribbean Marine Research Center; Perry Institute of the Sea
- " West Coast and Polar Regions: University of Alaska Fairbanks
- " Hawaii and the Western Pacific: University of Hawaii at Manoa, Hawaii Undersea Research Laboratory

Recent Accomplishments:

- " Research on the effects of trawing on the seafloor. **currently closed to fishing provide an opportunity to study rates in a range of habitats provide management with reopening the closure areas.**
- " Research on factors affecting coral health. **Payoffs: Maintaining healthy coral ecosystems support activities that are worth over one billion dollars annually conducted over 100 research projects addressing a wide range of issues relevant to coral reefs including fisheries, reef conditions**
- " Research on frozen methane hydrates. **Research on frozen methane hydrates. *than 1,000 times more energy than all estimated oil and gas sources combined. NURP has supported research in the Gulf of Mexico to study hydrates, ecosystems associated with them.***
- " Pioneering development of unmanned observation vehicles for research. **Payoffs: NURP provides the ability to study phenomena in real time.**

What's Next for NURP?

Science Challenges in the next five to 10 years:

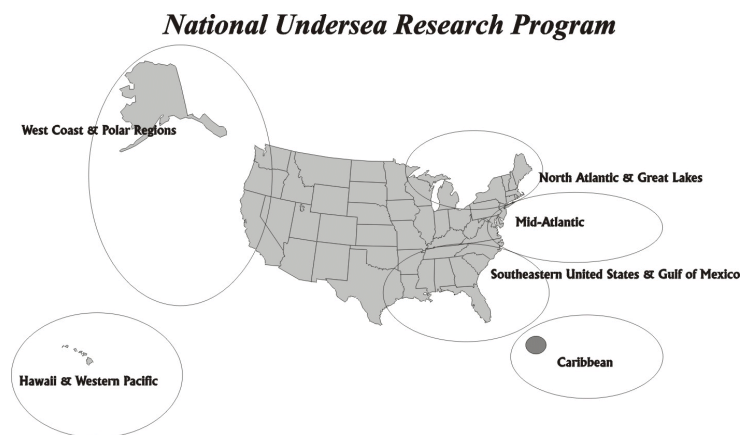
- " Assume leadership of the U.S. Program in ocean exploration to better assess living resources, physical and biogeochemical processes, and how to better manage resources for future generations.
- " Improve understanding of undersea ecosystems.
- " Support exploration and discovery of new resources, including biomedical substances.
- " In cooperation with NMFS, improve the science basis to manage protected species.
- " Develop principal technologies to support exploration and research in the undersea environment.

Research Partnerships:

NURP partners are the University of Carolina-Wilmington, the Caribbean Marine Research Center, the University of Alaska Fairbanks, Woods Hole Oceanographic Institution, and the Jason Foundation.

Budget and Staff:

NURP manages a \$13.8 million program with 5 federal employees nationwide that support the program.



For more information, contact:

Barbara Moore, Director
National Undersea Research Program
1315 East West Hwy
Silver Spring, MD 20910
Phone: 301-713-2427
<http://www.nurp.noaa.gov>
